Appl. No. 10/002,781 Amdt. dated September 14, 2005 Reply to Office action of June 15, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

30 <u>Listing of Claims:</u>

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1. (currently amended) A method for interleaving print jobs comprising:

selecting receiving a plurality of original print jobs at a nonprinter computing device for printing;

breaking down said original print jobs into smaller sub-jobs with said non-printer computing device;

interleaving said sub-jobs in an alternating sequence with said non-printer computing device; and

printing sending said sub-jobs to a printer in said sequence.

- 2. (currently amended) The method of claim 1 wherein said selecting, said breaking down and said interleaving are performed at non-printer computing device is a client computing device.
- 3. (currently amended) The method of claim 1 wherein said selecting,
 said breaking down and said interleaving are performed at non-printer computing
 device is a network print server.
 - 4. (canceled)
 - 5. (currently amended) The method of claim 1 wherein said breaking down is performed by a <u>software</u> print system component in an operating system print server.

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- 6. (currently amended) The method of claim 5 wherein said operating system is Microsoft Windows ® and said print system component is a Microsoft Windows ® print processor.
 - 7. (currently amended) The method of claim 5 wherein said print system component is <u>independent of an operating system print</u> driver-independent.
- 8. (currently amended) The method of claim 5 wherein said print system component is a <u>network print spooler that is independent of a printer.</u>
 - 9. (currently amended) The method of claim 5 wherein said print system component is a network print driver.
- 10. original) The method of claim 1 wherein said breaking down results in sub-jobs of approximately equal size.
 - 11. (original) The method of claim 1 wherein said breaking down results in sub-jobs of approximately equal printing time.
- 12. (original) The method of claim 1 wherein said alternating sequence places sub-jobs originating from smaller original print jobs toward the front of the print order.
 - 13. (currently amended) A method for interleaving print jobs, said method comprising:

receiving a plurality of original print jobs at a <u>non-printer</u>, print system component <u>before said jobs arrive at a printer</u>;

breaking down said original print jobs into smaller sub-jobs with said print system component;

interleaving said sub-jobs in an alternating sequence with said print system component; and

sending printing said sub-jobs to a printer in said sequence.

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14. (currently amended) A method for reducing delay of smaller print jobs in a print queue, said method comprising:

receiving a plurality of original print jobs at a print system component <u>before</u> said print jobs arrive at a printer, said plurality of original print jobs comprising at least one larger print job and at least one smaller print job;

breaking down said larger original print job into smaller sub-jobs;

interleaving said sub-jobs with said smaller original print job in an alternating sequence; and

printing sending said sub-jobs and said smaller original print job to a printer in said sequence.

- 15. (original) The method of claim 14 further comprising breaking down said smaller original print job into smaller sub-jobs and wherein said interleaving comprises interleaving said smaller sub-jobs from said larger print job with said smaller sub-jobs from said smaller print job.
- 90 16. (currently amended) A system for interleaving print jobs <u>before said</u> <u>print jobs arrive at a printer, said system</u> comprising:

a receiver for receiving a plurality of original print jobs, before said print jobs arrive at a printer;

a partitioner for breaking down said original print jobs into smaller sub-jobs; and

an interleaver for interleaving said sub-jobs in an alternating sequence, and a sender for sending said sub-jobs to a printer.

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17. (currently amended) A computer readable medium comprising instructions for performing functions within a <u>non-printer</u>, print system component, said instructions comprising the acts of:

receiving a plurality of original print jobs at a print system component before said print jobs arrive at a printer;

breaking down said original print jobs into smaller sub-jobs; interleaving said sub-jobs in an alternating sequence; and printing sending said sub-jobs to a printer in said sequence.

18. (currently amended) A computer data signal embodied in an electronic transmission, said signal having the function of interleaving print jobs, said
 signal comprising instructions for a non-printer, print system component to perform the acts of:

receiving a plurality of original print jobs at a print system component before said print jobs arrive at a printer;

breaking down said original print jobs into smaller sub-jobs; interleaving said sub-jobs in an alternating sequence; and printing sending said sub-jobs to a printer in said sequence.